west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
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Jim Justice, Governor
Austin Caperton, Cabinet Secretary
www.dep.wv.gov

June 12, 2017

John McNew, Director of Engineering
Pocahontas Coal Company LLC
109 Appalachian Drive
Beckley, WV 25801

Re: Application Status: Approved
Pocahontas Coal Company LLC
Affinity Preparation Plant
Registration Application G10-D118D
Plant ID No. 081-00243

Dear Mr. McNew:

Your application for a General Permit G10-D registration to modify a wet wash coal preparation plant as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed registration G10-D118D is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

A copy of the complete General Permit G10-D may be obtained from the DAQ's website at the following address: http://www.dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx.

This permit does not affect 45CSR30 applicability. The source remains a nonmajor source subject to 45CSR30.

In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a Certified Emissions Statement (CES) and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued,

modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions, please contact me at (304) 926-0499, ext. 1210.

Sincerely,

Daniel P. Roberts, Engineer Trainee
NSR Permitting Section

Enclosures

c: John McNew, jmcnew@unitedcoal.com
Laura Claypool, lclaypool@unitedcoal.com
Donna Toler, donnatoler@suddenlink.net

West Virginia Department of Environmental Protection
Division of Air Quality

Jim Justice
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Class II General Permit
G10-D Registration to Modify

for the
Prevention and Control of Air Pollution in regard to the
Construction, Modification, Relocation,
Administrative Update and Operation of
Coal Preparation Plants and Coal Handling Operations

The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of General Permit G10-D.

G10-D118D

Issued to:
Pocahontas Coal Company LLC
Affinity Preparation Plant
081-00243

William F. Durham
Director

Issued: June 12, 2017

This Class II General Permit Registration will supercede and replace general permit registration G10-D118C which was approved on February 24, 2016.

Facility Location:	Midway, Raleigh County, West Virginia
Mailing Address:	109 Appalachian Drive, Beckley, WV 25801
Facility Description:	Wet Wash Coal Preparation Plant
SIC Codes:	1222 (Bituminous Coal & Lignite - Underground)
NAICS Codes:	212112 (Bituminous Coal Underground Mining)
UTM Coordinates:	Easting: 480.0951 km • Northing: 4173.8794 km • NAD83 Zone 17N
Lat/Lon Coordinates:	Latitude: 37.711944 • Longitude: -81.225833 • NAD83
Registration Type:	Modification
Description of Change:	Modification to do the following: add two refuse conveyors BC-22 and BC-23 rated for 400 TPH and 3,504,000 TPY to transfer refuse to a new refuse open storage pile area OS-5; delete raw coal crusher CR-01 rated for 700 TPH and 6,132,000 TPY and the associated transfer points TP-12 and TP-13.

Subject to 40CFR60 Subpart Y? Yes
Subject to 40CFR60 Subpart IIII? No
Subject to 40CFR60 Subpart JJJJ? No

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

This permit does not affect 45CSR30 applicability. The source is a nonmajor source subject to 45CSR30.

All registered facilities under Class II General Permit G10-D are subject to Sections 1.0, 1.1, 2.0, 3.0 and 4.0.

The following sections of Class II General Permit G10-D apply to the registrant:

Section 5	Coal Preparation and Processing Plants and Coal Handling Operations	☑
Section 6	Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after October 27, 1974, and on or before April 27, 2008 (40CFR60 Subpart Y)	☐
Section 7	Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after April 28, 2008, and on or before May 27, 2009 (40CFR60 Subpart Y)	☐
Section 8	Standards of Performance for Coal Preparation and Processing Plants that Commenced Construction, Reconstruction or Modification after May 27, 2009 (40CFR60 Subpart Y)	☑
Section 9	Reciprocating Internal Combustion Engines (R.I.C.E.)	☐
Section 10	Tanks	☐
Section 11	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40CFR60 Subpart IIII)	☐
Section 12	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJJ)	☐

Emission Units

Equip-ment ID No.	Date of Construction, Reconstruction or Modification [1]	G10-D Applicable Sections [2]	Emission Unit Description	Maximum Permitted Throughput		Control Device [3]	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Device [3]
Raw Coal Circuit									
BC-01	M 2016 C 2010	5 and 8	60" Deep Mine Conveyor - receives raw coal from the deep mine and transfers it to BC-02	1,200	10,512,000	PE	B A	TP-01 TP-02	TC-FE TC-FE
BC-02	M 2016 C 2010	5 and 8	60" Transfer Conveyor - receives raw coal from BC-01 and transfers it to OS-01	1,200	10,512,000	PE	B A	TP-02 TP-03	TC-FE TC-PE
OS-01	M 2016 C 2010	5 and 8	Raw Coal Open Storage Pile - maximum 50,000 tons capacity, 88,869 ft² case area and 75' height - receives raw coal from BC-02 via a stacking tube, stores it and then underpile reclaim feeders drop it onto BC-03. Excess raw coal may be pushed between OS-01 and OS-03 by a dozer.	1,200 in 800 out	10,512,000	WS	B B A A	TP-03 TP-05 TP-04 TP-07	TC-PE LO-MDH UL-MDH LO-UC
OS-03	M 2016 C 2011	5 and 8	Excess Raw Coal Open Storage Pile - maximum 70,000 tons capacity, 108,869 ft² case area and 75' height - receives raw coal from truck and excess raw coal from OS-01 via a dozer. Raw coal may be pushed between OS-03 and OS-01 by a dozer.	600	5,256,000	WS	B B A	TP-04 TP-05 TP-06	UL-MDH UL-MDH LO-MDH
BC-03	M 2016 C 2010	5 and 8	48" Belt Conveyor - receives raw coal from stockpile OS-01 and transfers it to BC-04	800	7,008,000	PE	B A	TP-07 TP-08	LO-UC TC-FE
BC-04	M 2016 C 2010	5 and 8	48" Screen Feed Conveyor - receives raw coal from BC-03 and transfers it to SS-01	800	7,008,000	PE	B A	TP-08 TP-09	TC-FE TC-PW
SS-01	M 2016 C 2010	5 and 8	10x20' Scalping Screen - receives raw coal from BC-04, classifies it and then transfers -the 1 3/8" refuse to BC-20 (see Refuse Circuit below) and the 2" x 0 to BC-06	800	7,008,000	PW	B A A	TP-09 TP-10 TP-11	TC-PW TC-PW TC-PW
BC-06	M 2016 C 2010	5 and 8	36" Silo #1 Feed Conveyor - receives sized raw coal from SS-01 and transfers it to BS-01	700	6,132,000	PE	B A	TP-11 TP-14	TC-PW TC-FE
BS-01	M 2016 C 2010	5 and 8	Raw Coal Silo - 6,000 tons capacity - receives sized raw coal from BC-06, stores it and then discharges underbin to BC-09	700	6,132,000	FE	B A	TP-14 TP-15	TC-FE LO-UC
BC-09	M 2016 C 2010	5 and 8	36" Plant Feed Conveyor - receives sized raw coal from BS-01 and transfers it to the wet wash prep plant	700	6,132,000	PE	B A	TP-15 TP-16	LO-UC TC-FW
Clean Coal Circuit									

Equip-ment ID No.	Date of Construction, Reconstruction or Modification [1]	G10-D Applicable Sections [2]	Emission Unit Description	Maximum Permitted Throughput		Control Device [3]	Associated Transfer Points		
				TPH	TPY		Location: B -Before A -After	ID No.	Control Device [3]
BC-10	C 2010	5 and 8	36" Clean Coal Transfer Belt - receives clean coal from the wet wash prep plant and transfers it to BC-21	400	3,504,000	PE	B A	TP-17 TP-18	TC-FW TC-FE
BC-21	C 2011	5 and 8	36" Clean Coal Transfer Belt - receives clean coal from BC-10 and transfers it to BC-11	400	3,504,000	PE	B A	TP-18 TP-19	TC-FE TC-FE
BC-11	C 2010	5 and 8	36" Clean Coal Transfer Belt - receives clean coal from BC-21 and transfers it to OS-02 or BC-12	400	3,504,000	PE	B A A	TP-19 TP-20 TP-22	TC-FE TC-PE TC-FE
OS-02	M 2016 C 2010	5 and 8	Clean Coal Open Storage Pile - maximum 50,000 tons capacity, 88,869 ft² case area and 75' height - receives clean coal from BC-11 via a stacking tube, dozer pushed excess clean coal to and from OS-04, stores it and then underpile reclaim feeders drop it onto BC-16	400 in 6,000 out	3,504,000	WS	B B A A	TP-20 TP-27 TP-21 TP-28	TC-PE LO-MDH UL-MDH LO-UC
OS-04	C 2016	5 and 8	Excess Clean Coal Open Storage Pile - maximum 50,000 tons capacity, 88,869 ft² case area and 75' height - receives excess clean coal from OS-02, stores it and then a dozer pushes it back to OS-02 or it is loaded into trucks for shipment	200	1,752,000	WS	B A A	TP-21 TP-27 TP-26	UL-MDH LO-MDH LO-MDH
BC-12	C 2010	5 and 8	36" Clean Coal Transfer Belt - receives clean coal from BC-11 and transfers it to BS-03 or BC-13	400	3,504,000	PE	B A A	TP-22 TP-23 TP-24	TC-FE TC-FE TC-FE
BS-03	C 2010	5 and 8	Clean Coal Silo #1 - 10,000 tons capacity - receives clean coal from BC-12, stores it and then discharges underbin to BC-16	400 in 6,000 out	3,504,000	FE	B A	TP-23 TP-29	TC-FE LO-UC
BC-13	C 2010	5 and 8	36" Clean Coal Transfer Belt - receives clean coal from BC-12 and transfers it to BS-04	400	3,504,000	PE	B A	TP-24 TP-25	TC-FE TC-FE
BS-04	M 2016 C 2010	5 and 8	Clean Coal Silo #2 - 6,000 tons capacity - receives clean coal from BC-13, stores it and then discharges underbin to BC-15	400 in 6,000 out	3,504,000	FE	B A	TP-25 TP-30	TC-FE LO-UC
BC-15	M 2016 C 2010	5 and 8	60" Clean Coal Reclaim Conveyor - receives clean coal from BS-04 and transfers it to BC-16	6,000	3,504,000	PE	B A	TP-30 TP-31	LO-UC TC-FE
Rail Car Loadout Circuit									
BC-16	M 2016 C 2010	5 and 8	60" Clean Coal Loadout Conveyor #1 - receives clean coal from OS-02, BS-03 and BC-15 and transfers it to BC-17	6,000	3,504,000	PE	B B B A	TP-28 TP-29 TP-31 TP-32	LO-UC LO-UC TC-FE TC-FE
BC-17	M 2016 C 2010	5 and 8	60" Clean Coal Loadout Conveyor - receives clean coal from BC-16 and transfers it to BS-05	6,000	3,504,000	PE	B A	TP-32 TP-33	TC-FE TC-FE
BS-05	M 2016 C 2010	5 and 8	Batch Weigh Surge Bin - 200 tons capacity - receives clean coal from BC-17, stores it and then transfers it to BS-06	6,000	3,504,000	FE	B A	TP-33 TP-34	TC-FE TC-FE
BS-06	M 2016 C 2010	5 and 8	Batch Weigh Loadout Bin - 150 tons capacity - receives clean coal from BS-05 and then transfers it to railcar	6,000	3,504,000	FE	B A	TP-34 TP-35	TC-FE LR-TC
Refuse Circuit									
BC-18	M 2016 C 2010	5 and 8	36" Plant Refuse Belt Conveyor - receives refuse from the wet wash prep plant and transfers it to BC-20	400	3,504,000	PE	B A	TP-36 TP-37	TC-FW TC-FE
BC-20	M 2016 C 2010	5 and 8	30" Overland Refuse Belt Conveyor - receives -1 3/8" reject from SS-01 and refuse from BC-18 and transfers it to BS-07	400	3,504,000	PE	B B A	TP-10 TP-37 TP-38	TC-PW TC-FE TC-FE
BS-07	M 2016 C 2010	5 and 8	Refuse Bin - 200 tons capacity - receives refuse from BC-20, stores it and then discharges via chute/gate to truck for transport to the disposal area	400	3,504,000	FE	B A A	TP-38 TP-39 TP-40	TC-FE LO-MDH UL-MDH
BC-22	C 2017	5 and 8	Refuse Belt Conveyor - receives refuse from the wet wash prep plant circuit and transfers it to BC-23	400	3,504,000	PE	B A	TP-41 TP-42	TC-FW TC-PE
BC-23	C 2017	5 and 8	Refuse Belt Conveyor - receives refuse from BC-22 and transfers it to OS-05	400	3,504,000	PE	B A	TP-42 TP-43	TC-PE TC-MDH
OS-05	C 2017	5 and 8	Refuse Open Storage Pile - maximum 5,000 tons capacity, 8,869 ft² base area and 25' height - receives refuse from BC-23, stores it and then a front end-loader loads it into trucks for transport to the refuse disposal area	400	3,504,000	WS	B A	TP-43 TP-44	TC-MDH LO-MDH

[1] In accordance with 40 CFR 60 Subpart Y, coal processing and conveying equipment, coal storage systems, and coal transfer and loading systems constructed, reconstructed, or modified on or before April 28, 2008 shall not discharge gases which exhibit 20 percent opacity or greater. Coal processing and conveying equipment, coal storage systems, and coal transfer and loading systems constructed, reconstructed, or modified after April 28, 2008 shall not discharge gases which exhibit 10 percent opacity or greater. For open storage piles constructed, reconstructed, or modified after May 27, 2009, the permittee shall prepare and operate in accordance with a fugitive coal dust emissions control plan that is appropriate for site conditions.

[2] All registered affected facilities under Class II General Permit G10-D are subject to Sections 1.0, 1.1, 2.0, 3.0 and 4.0.

[3] Control Device Abbreviations: FE - Full Enclosure; FW - Full Enclosure with Water Sprays; PE - Partial Enclosure; PW - Partial Enclosure with Water Sprays; WS - Water Sprays; TC - Telescopic Chute; MDH - Minimize Drop Height; and N - No Control.

Emission Limitations

- Facility-wide Emissions - **Pocahontas Coal Company LLC Affinity Preparation Plant**	**Maximum Controlled PM Emissions**		**Maximum Controlled PM_{10} Emissions**	
	lb/hour	TPY	lb/hour	TPY
Fugitive Emissions				
Open Storage Pile Emissions	0.52	2.28	0.24	1.07
Unpaved Haulroad Emissions	48.74	213.63	14.39	63.06
Paved Haulroad Emissions	0.00	0.00	0.00	0.00
Fugitive Emissions Total	*49.26*	*215.91*	*14.63*	*64.13*
Point Source Emissions				
Equipment Emissions	16.00	70.08	7.52	32.94
Transfer Point Emissions	10.38	19.78	4.91	9.36
Point Source Emissions Total (PTE)	*26.38*	*89.86*	*12.43*	*42.29*
FACILITY EMISSIONS TOTAL	**75.64**	**305.78**	**27.06**	**106.42**

Engines - *Not Applicable*

Source ID	Emission Source	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (tpy)
		Nitrogen Oxides		
		Carbon Monoxide		
		Volatile Organic Compounds		
		Particulate Matter (<10 microns)		
		Sulfur Dioxide		
		Formaldehyde		

Control Devices - *Not Applicable*

Control Device ID No.	Source ID No.	Date Constructed, Reconstructed, or Modified	Emission Unit Description (Make, Model, Serial No., etc.)

Reciprocating Internal Combustion Engines - *Not Applicable*

Emission Unit ID No.	Emission Unit Description (Make, Model, Serial No., etc.)	Year Installed	Design Capacity (Bhp/rpm)

Reciprocating Internal Combustion Engines (R.I.C.E.) Information - *Not Applicable*

Emission Unit ID No.	Subject to 40CFR60 Subpart IIII?	Subject to 40CFR60 Subpart JJJJ?	Subject to Sections 9.1.4/9.2.1 (Catalytic Reduction Device)

Storage Tanks - *Not Applicable*

Source ID No.	Status	Content	Design Capacity			Orientation	G10-D Applicable Sections
			Volume	Diameter	Throughput		